

IRON AGE

FARM, GARDEN AND ORCHARD IMPLEMENTS

American Factory

Established 1830

BATEMAN M'F'G CO.,

GREENLOCH, NEW JERSEY, U. S. A.

Canadian Factory

Established 1898

THE BATEMAN-WILKINSON CO., LIMITED

TORONTO, ONTARIO

TOOLS ARE SHOWN IN STORE AT CENTERS OF DISSEM-
INATION. LIBRARY STOCKS OF PORTABLE TOOLS FOR
CASH VOUCHER ARE SHOWN BY THE BEST CLASS OF
REPRESENTATIVE AND HARDWARE DEALERS IN THE COUNTRY.

IF NOT HANDLED BY YOUR LOCAL DEALER, WRITE US FOR
NEAREST ADDRESS WHERE TOOLS
CAN BE SEEN AND EXPLAINED.



HOME, FARM AND MARKET GARDENING WITH MODERN TOOLS



Professional Plant Growth, fruit and vegetables, and in many ways.
If you want more, through and more cultivation, make healthy
growth and the seed will then find the best.

John Allen's Bateman Mfg Co. Collection

The best gardens, any size, entirely possible to any one with

IRON AGE

Seed Drills, Wheel Hoes and Fertilizer Distributors

Every man who has or can get a bit of ground should have a garden because meats are high and we eat too much meat anyway. Not many of us want to be vegetarians but most of us should eat more vegetables. We would, too, if we could be sure of getting them fresh and getting them just when we want them. Then too, "variety is the spice of life" in our eating as in everything else, and you can be sure of the variety, if you have a good garden. And, you will not only have better health because of a more sensible diet, but you will have a healthier appetite, a greater love and wonder for God and His works, and a more intense interest in all life.

We used to think that a garden meant considerable hard work but that isn't so, modern garden tools changed all that many years ago. Now a good garden is made in long rows and cultivated frequently with a hoe on wheels that is easily pushed along and is far more safe and ten times faster than any ordinary style hoe.

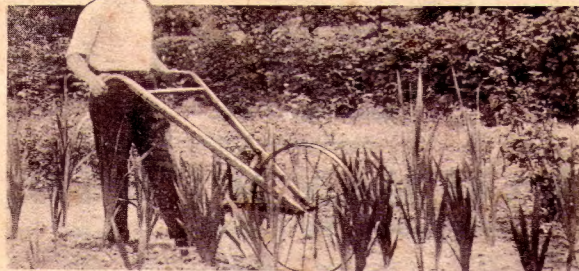
Any home gardener can afford one because there are many styles and combinations to suit each need. In fact, no gardener can afford to be without one or more of them.

Any member of the family, over 12 years of age, can operate them easily.

All market gardeners use from 6 to 36 of these tools. They permit close, safe and thorough cultivation in narrow rows and for between-row crops where horses could not work.

Every general farmer should have them for that important part of his

Only with a garden tool was this man able to indulge, on a large scale, his love for flowers



A drill is so much easier than by hand and much more sure. Marks the next row, too

farm, the garden, which helps his wife to prepare better meals for less money. These tools can be worked at odd times or in the evening when you don't care to work the horses.

Mechanics and laboring men can, with slight outlay and very little work, provide their tables with plenty of fresh vegetables and save on their meat bills.

Specialists, such as Seed Growers, Nurserymen, Sugar Beet Men, Poultrymen, Onion Growers, all have profitable use for these tools.

The Iron Age line is a quality line throughout, it is useless to bother with cheap, flimsy tools.

The Iron Age line of these tools is very complete and adaptable to all of the work in any practical garden, large or small.

It includes wheel hoes, double and single, hill and drill seeders, fertilizer distributors, in many sizes and combinations. See also barrel trucks, carts, leaf racks, small tools, row indexes, etc., on pages 19 and 20. Let your dealer know what you need—he can fit you out.

**BATEMAN M'F'G CO.,
GRENLOCH, N. J.**

Please note the many combinations that can be made on the same frame. Also, while some are shown in reduced size, it is only because we do not have space enough to show them all same size, which they are. These tools are not toys, but practical tools for everyday use.

We also make one- and two-horse cultivators of many kinds, potato machinery, spraying machines for orchard, field, poultry house and home, trucker's tools, etc.



5 Wheel Hoes, each with 4 teeth, 10 cultivations, 20 furrows. How long would it take the operators with old-fashioned hoes, going twice to the row?

REVISED PRICE LIST

“IRON AGE” WHEEL HOES, SEED AND FERTILIZER DRILLS

August 15, 1916

	PAGE
No. 1 —Double and Single Wheel Hoe, complete.....	\$ 8.75—5
No. 3 —Double and Single Wheel Hoe (side hoes only).....	5.50—6
No. 4 —Combined Double and Single Wheel Hoe and Drill Seeder.....	13.75—4
No. 4B—Same as No. 4 except has Fig. 215 Plow.....	13.75—4
No. 04B—Comb. Double and Single Wheel Hoe and Drill Seeder, with Fig. 215 and high rear wheel.....	17.00—12
No. 4D—Same as No. 4 except has Fig. 234 Plow.....	13.75
No. 5 —Drill Seeder only.....	10.00—4
No. 05B—Drill Seeder, with Fig. 215 and high rear wheel.....	13.25—12
No. 6 —Combined Double and Single Wheel Hoe, Hill and Drill Seeder.....	15.00—1
No. 6 —Combined Exhibition Machine, Fig. 433.....	15.00
No. 7 —Hill and Drill Seeder.....	11.25—2
No. 9 —Single Wheel Hoe, complete.....	6.50—13
No. 10 —Single Wheel Hoe (side hoes only).....	4.00—13
No. 11 —Wheel Plow.....	3.25—14
No. 12 —Wheel Plow and Cultivator.....	4.50—14
No. 13 —Double and Single Wheel Hoe (side hoes and teeth only).....	7.00—6
No. 14 —No. 6 Combined (side hoes and teeth only).....	13.25—2
No. 15 —Combined Single Wheel Hoe, Hill and Drill Seeder.....	13.75—10
No. 16 —Drill Seeder only.....	10.75—10
No. 17 —Combined Single Wheel Hoe and Drill Seeder.....	12.50—11
No. 17B—Same as No. 17 except has Fig. 215 Plow.....	12.50—11
No. 17D—Same as No. 17 except has Fig. 234 Plow.....	12.50—11
No. 017B—Comb. Drill Seeder and Single Wheel Hoe, with Fig. 215 and high rear wheel.....	15.75—12
No. 018B—Drill Seeder, with Fig. 215 and high rear wheel.....	12.50—12
No. 18 —Drill Seeder only.....	9.50—11
No. 18B—Drill Seeder only, with Fig. 215.....	9.50—11
No. 19 —Wheel Plow and Cultivator.....	4.00—15
No. 19C—Wheel Plow and Cultivator.....	4.50—15
No. 20 —Single Wheel Hoe, compt.....	7.50—10
No. 21 —Single Wheel Hoe (side hoes only).....	5.00—10
No. 22 —Combined Fertilizer Distributor, Hill and Drill Seeder.....	22.50—18
No. 23 —Fert. Distributor and Side Dresser.....	16.25—18
No. 25 —Single Wheel Fertilizer Distributor.....	10.00—19
No. 26 —Fertilizer Drill.....	10.75—19
No. 27 —Double and Single Wheel Disc Cultivator.....	9.50—8
No. 28 —Single Wheel Disc Cultivator.....	8.25—8

	PAGE
No. 29—Single Wheel Disc Cultivator.....	\$ 7.25—8
No. 40—No. 4 Combined with side hoes and teeth only.....	12.00—4
New Model Seed Drill.....	10.00—17
New Model Seed Drill No. 2, with Fig. 234 Plow.....	10.00—17
New Model Seed Drill, with Fig. 304 Plow....	10.00—17
Gem Single Wheel Hoe, complete.....	6.25—16
Gem Single Wheel Cultivator (teeth only)....	4.75—16
Gem Double Wheel Hoe, complete.....	7.50—16
Advance Fertilizer and Seed Drill.....	8.50—17

ATTACHMENTS FOR WHEEL HOES AND DRILLS

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Combined Hill and Drill Seeder, Double and Single Wheel Hoe

No. 6

Many men should use combination tools for two reasons:

They save in first cost and
They take up less room.

Thousands of gardeners have found this to be true of No. 6. Of course, most market gardeners prefer to have separate tools always ready to do each separate piece of work—drills, wheel hoes, wheel plows, etc. We have them in great variety, to suit each purpose in a particular way. The home gardener who has enough ground to warrant

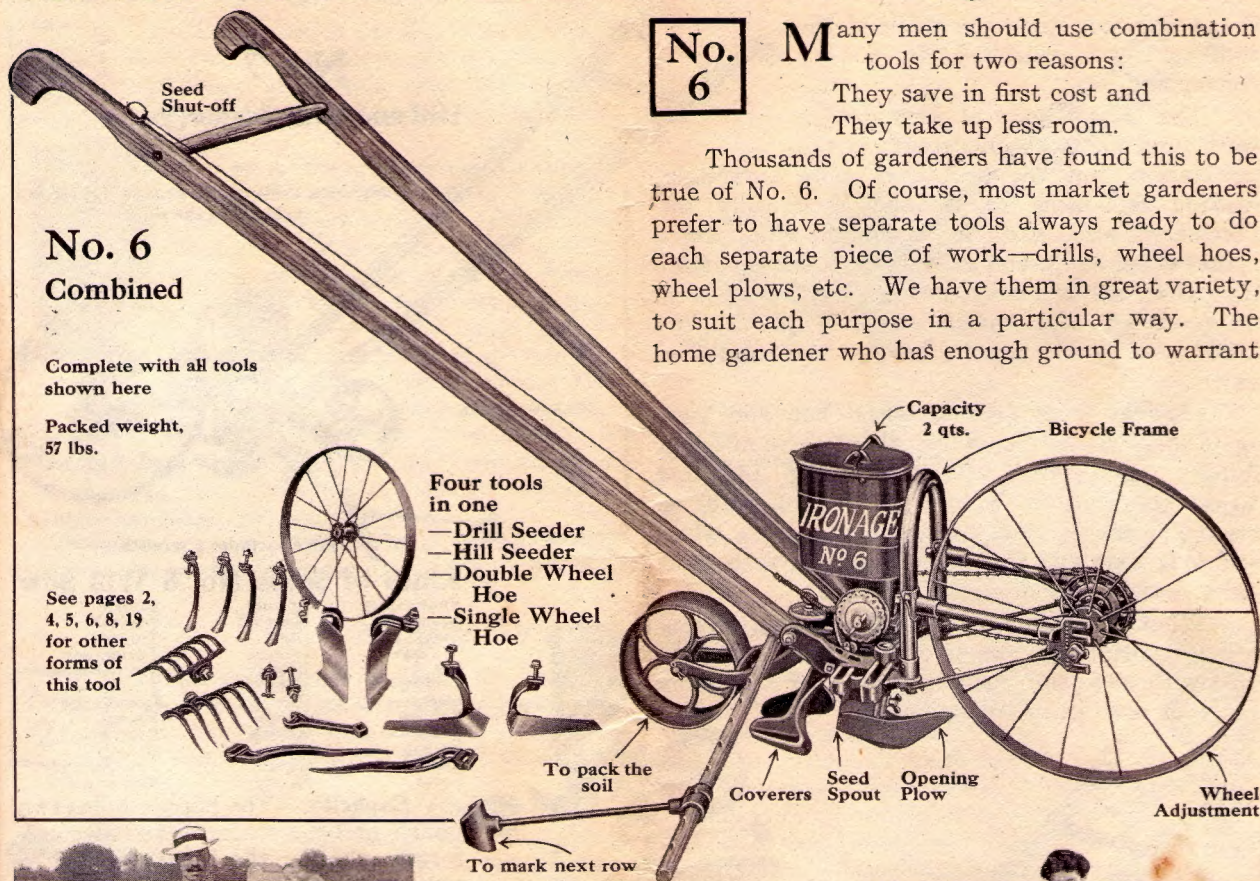
No. 6 Combined

Complete with all tools shown here

Packed weight, 57 lbs.

See pages 2, 4, 5, 6, 8, 19 for other forms of this tool

Four tools in one
—Drill Seeder
—Hill Seeder
—Double Wheel Hoe
—Single Wheel Hoe



May be used either as drill or hill seeder



Boy with Double Wheel Hoe form of No. 6



Single Wheel Hoe. Any woman can operate one easily

BATEMAN M'FG CO.,
GRENLOCH, N.J., U.S.A.

IRON AGE

EIGHTY
YEARS IN BUSINESS

Combined Hill and Drill Seeder, Double and Single Wheel Hoe

it and who can spare the price of the combined tool, will find No. 6 very convenient.

The largest part of your garden work (and the most important) is the cultivation, but the drill sows more accurately, making replanting or thinning practically unnecessary; also, sows in a straight line, which makes easier and better cultivation possible. More than that, the drill saves bending that good back of yours—if that means anything to you, we know you won't regret buying the combined machine.

Changes from drill to wheel hoe and back again are easily made—takes about three minutes. Simply remove drill attachment, Fig. 134, and adjust the cultivating tools which you want to use. For use as **double** wheel hoe, remove wheel and long axle and attach both wheels with short axles, outside the frame extensions.

What it will do. It will open its own furrow, sow in continuous rows or drop in hills, cover the seed with loose soil, pack it with roller and mark the next row, all in one operation.

No. 7

Hill and Drill Seeder, plain

Cultivating tools can be applied but are not included in the price

Packed weight,
43 lbs.

Price includes a wrench

Kinds of Seeds No. 6 Will Sow

VEGETABLE:

Asparagus
Beets
Cabbage
Carrot
Cauliflower
Celery
Chicory
Cucumber
Endive
Kale
Leeks

Lettuce
Mangold
Okra
Onions
Parsley
Parsnips
Peas
Pepper
Radish
Sage
Salsify

Savory
Spinach
Tomato
Turnip, etc.
FRUIT SEEDS:
Apple
Cantaloupe
Melon
Pear, etc.
Also,
Tobacco and
Flower Seeds

Capacity. The hopper holds two quarts and the seeder distributes uniformly whether the hopper is full or only partly so.

Sugar beet and chicory growers can sow these seeds with the No. 6 accurately and without injury. Hundreds of these tools are in use in Michigan for chicory. The arch being high allows cultivation of these crops until well grown.

As a hill seeder, it will drop in hills at 4, 6, 8, 12, or 24 inches apart and, when ordered, the seeder will be equipped with special sprocket wheel, C-121-A, which will drop the seed 5, 8, 11, 16 or 32 inches apart. If new seeder is wanted with special sprocket, add letter "A" to the number, as **No. 6-A.**



Fig. 134

Hill and Drill Seeder Attachment

No. 14

Includes all tools
shown here

Packed weight, 52 lbs.

Combined Hill and Drill Seeder, Double and Single Wheel Hoe

**No.
6**

The change from hill to drill seeder is made instantly by throwing upper lever shown in Fig. 146, into notch in lower lever. This cut also shows the hill spacing plate and its connections. The pins, placed in holes at outer edge of plate, space the various distances under 24 inches. A stationary peg on back of the plate makes the hills 24 inches apart.

Amount to be sown. This is regulated by a seed slide and index adjustment for various seeds (Fig. 146). Every man has his own ideas on this point and with this index he can suit himself. When the indicator is set, that should be taken as a starting point from which to regulate the flow of seed exactly, by moving index a trifle backward or forward.

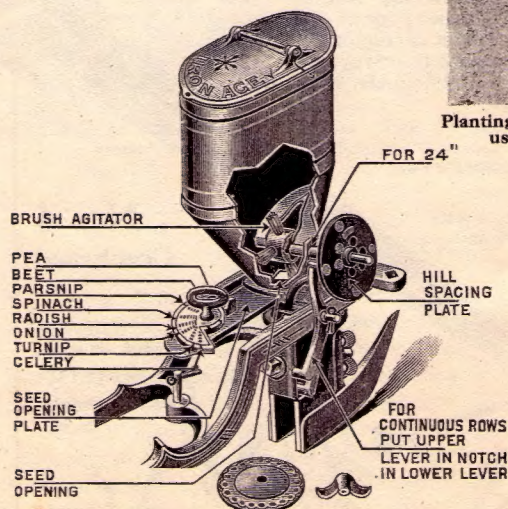


Fig. 146

Brush agitator, hill dropping device, index and opening plow

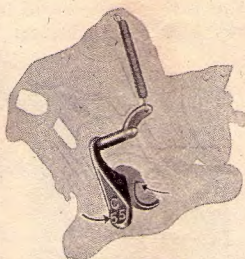


Fig. 319

Arrows show seed opening and swinging cut-off



Planting in long rows is an economical use of space, and cultivation is easier and more thorough

A force feed. Some round, smooth seeds flow through the discharge opening naturally, but others, such as beets, tomatoes, etc., cling together and need an agitator to insure continuous feed. Ours is a **brush agitator**, made of selected bristles that do not injure the seed in any way—they wear a long time and are cheaply replaced—they feed all of the seed that the opening in the slide will take care of.

A swing cut-off permits the operator to stop the flow of seed instantly by means of a cord and ring on the handle—this prevents loss at ends of rows. **Fig. 319** shows bottom side of the cut-off—it **cannot be jammed** by falling seed as can the cut-offs that slide under.

Seed sowing in full view. **Fig. 183** shows how there can be no

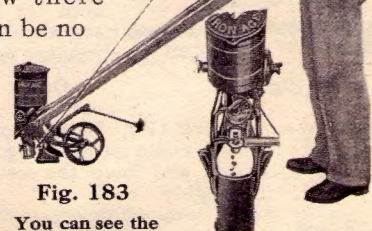


Fig. 183

You can see the seed drop

mistake about the seed being deposited in the soil, for the man at the handles can see every seed as it drops into the spout. You will not have spaces without seed, which you don't know about.

Steel Locke belt chains are furnished on all Iron Age drills, and adjustable cam tighteners not only keep the tension right but help in attaching or removing the chain.

Combined Hill and Drill Seeder, Double and Single Wheel Hoe

The opening plow (Fig. 146) not only opens the furrow but crushes and separates all trash in the way and keeps the seed in a straight, narrow row which makes it possible to cultivate very close. The plow is adjusted in depth by thumb screw in front.



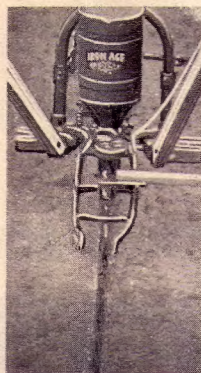
Fig. 145

For sowing onion seed, for sets, in a row over three inches wide, we recommend the use of opening plow, Fig. 145. It is largely used for this purpose. Can be applied on Nos. 6, 7, 15, 16 and 22.



Fig. 215

For drilling seed in very narrow rows, opening plow, Fig. 215, may be used. It is especially valuable for market onions other than sets because the wheel hoe can be worked close enough to do all the necessary weeding. It cannot be used for dropping in hills. When complete machines are ordered with this plow, it should be with Nos. 4, 5, 17, 18,



Sows in narrow rows with Fig. 215 plow. Hand weeding is needless

only—add letter "B" to the number, as No. 4 B. As an attachment, it will also fit Nos. 6, 7, 15, 16 and 22 drills. Price includes the spout.

Fig. 360 shows a new plow that can be applied to either No. 6 or No. 15. On account of its shape, it pulls into the ground easily, but is recommended for clean soil only.



Coverers close the furrow after the seed is dropped. They are flexible to prevent clogging with trash or lumps.

The next row can be marked at 6 to 20 inches, either side of the tool. Takes but a second to adjust—the stick pivots at rear of the hopper and can be thrown by the foot.

Fig. 360
Plow only.

Attachments. Other than the plows above mentioned, all attachments on page 9, also Figs. 184 and 235, page 19, can be applied to this tool.

Combined Drill Seeder and Double and Single Wheel Hoe



Fig. 133

No. 4

A drill seeder, like No. 6 except that it does not have hill dropping device and has a different opening plow. Fig. 133 is the drill attachment which, added to No. 1 Wheel Hoe, makes No. 4 Combined. Sows in continuous rows only. For the man who makes a specialty of one or more crops that are always sown in continuous rows and naturally has no use for the hill dropping parts.



Fig. 234

because it cuts through trash, etc. If drill is wanted with Fig. 234 in place of regular steel plow, order by adding letter "D" to the number, as No. 4D.

Fig. 215, on this page, can be furnished for No. 4, either as an attachment or on complete tool in place of regular plow and spout—if wanted that way, order by adding letter "B" to the number, as No. 4 "B"

No. 5. Drill Seeder only,

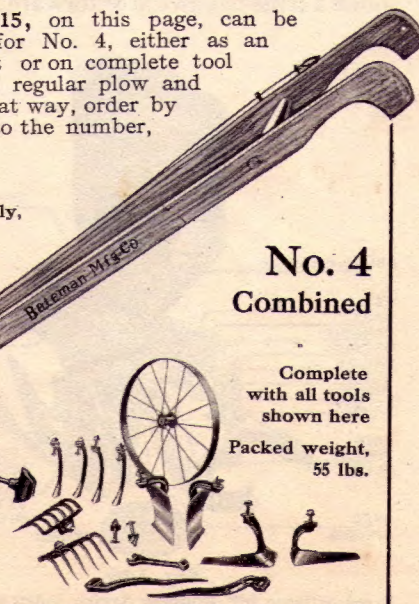
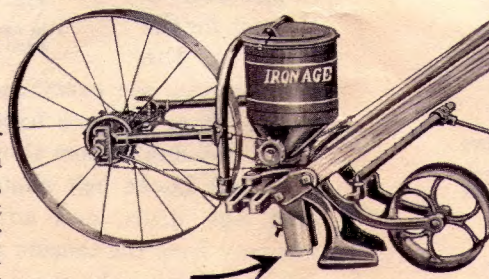
No. 40. (No. 5 with Side Hoes and Teeth)

**No. 4
Combined**



Fig. 320
Regular opening plow, reversed

Fig. 234 represents a plow similar to the regular opening plow on Nos. 6, 7, 15, 16, and 22 drills. It is known to our customers as an anti-clog plow



Complete with all tools shown here
Packed weight, 55 lbs.

Double and Single Wheel Hoe

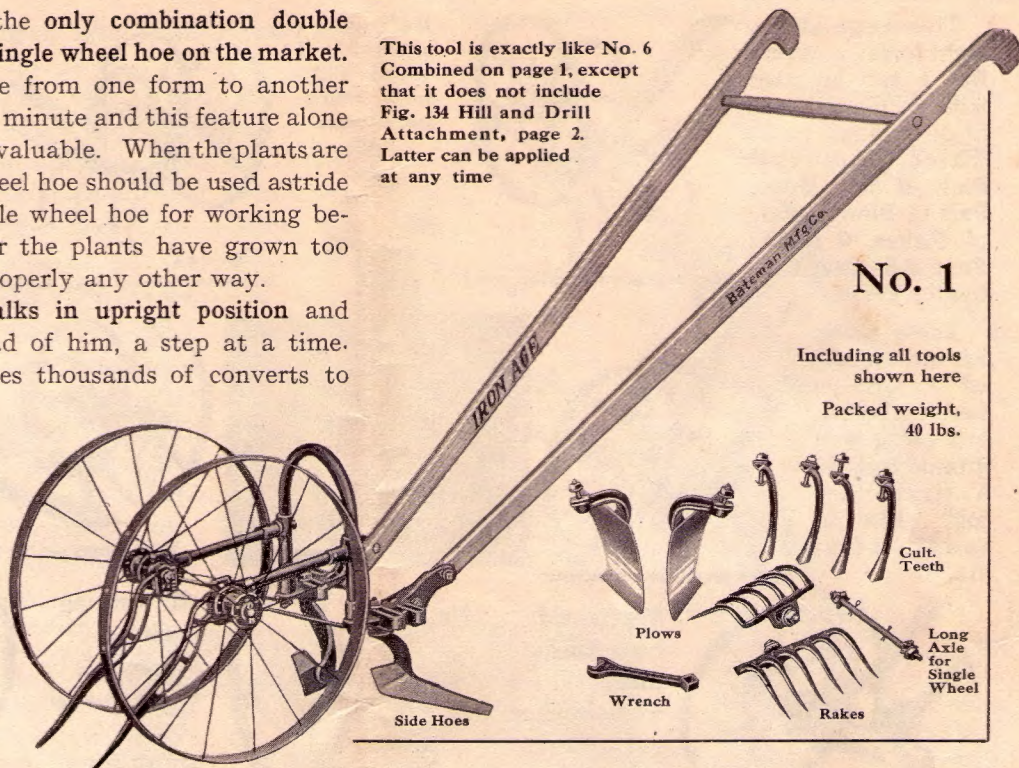
No. 1

This is the only combination double and single wheel hoe on the market. The change from one form to another takes but a minute and this feature alone makes the tool doubly valuable. When the plants are young, the double wheel hoe should be used astride the row and the single wheel hoe for working between the rows, after the plants have grown too high to be worked properly any other way.

The operator walks in upright position and pushes the tool ahead of him, a step at a time. This one thing makes thousands of converts to modern gardening, because none of us like to bend our backs and dig and pull weeds in the old way. With a tool like this, there is no need for hard work.

You can hoe, cultivate, ridge growing crops; weed, level and fine your soil; open furrows for

This tool is exactly like No. 6 Combined on page 1, except that it does not include Fig. 134 Hill and Drill Attachment, page 2. Latter can be applied at any time



No. 1

Including all tools shown here

Packed weight, 40 lbs.

Cult. Teeth

Long Axle for Single Wheel

Rakes

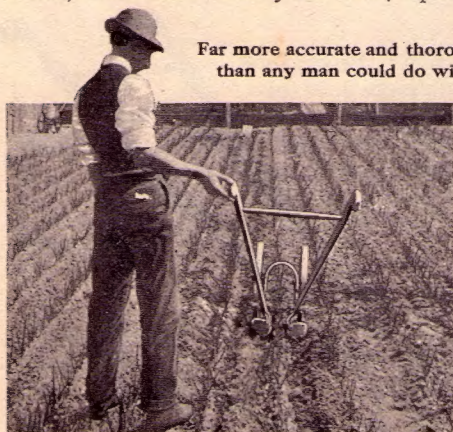
Wrench

Plows

Side Hoes

planting potatoes and other seed, mix the fertilizer with the soil, and cover seed after planting.

Far more accurate and thorough work than any man could do with a hoe



Double wheel No. 1 with regular plows astride the row

It would take many men, working with old-fashioned hoes, to keep up with this tool



Easy to change from one set of tools to another



First ridging of celery with No. 1 and Fig. 82 (page 9)

Single and Double Wheel Hoes—Continued

This page shows eight forms in which No. 1 can be used with the regular outfit of working tools, which includes: Pair of Side Hoes; Pair of Plows; Pair of Rakes, 6 tooth; Four All-Steel Cultivator Teeth.

These plows are not intended for use in hard ground, but in plowed ground they do a first-class job. Also in sandy loam, etc.

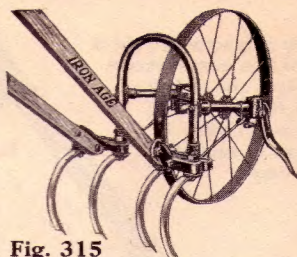


Fig. 315
For cultivation between rows

Below we show No. 3 with side hoes, working astride.



Fig. 312
Cultivator teeth set to go astride

Our side hoes, cultivator teeth, etc., will clean satisfactorily in Western soils. See also Fig. 317 on page 7 for special narrow shank and wide point teeth.

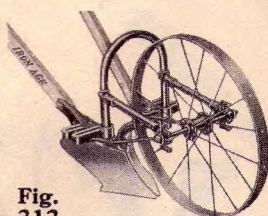


Fig. 313
Plows set to open a furrow



Fig. 314

Special side hoes can be furnished for work in very narrow or very wide rows. See page 7.

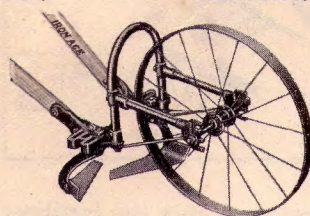
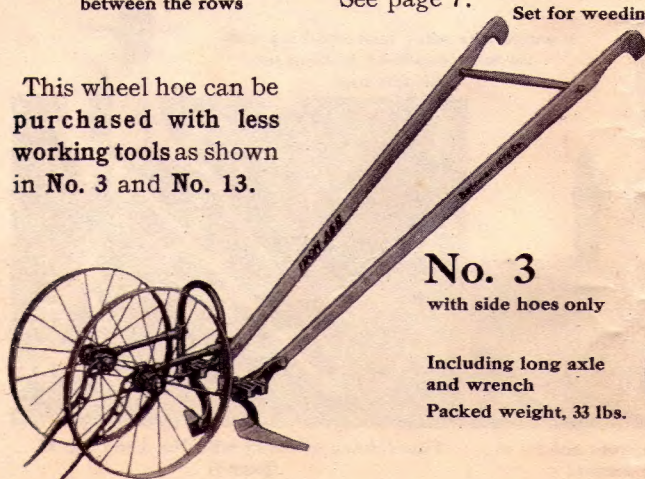


Fig. 76
With side hoes set to cut close between the rows

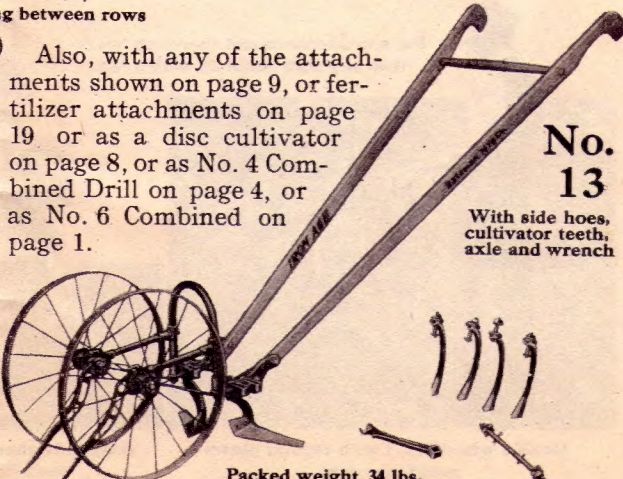
This wheel hoe can be purchased with less working tools as shown in No. 3 and No. 13.



No. 3

with side hoes only

Including long axle and wrench
Packed weight, 33 lbs.



No. 13

With side hoes, cultivator teeth, axle and wrench

Packed weight, 34 lbs.

All working tools are adjustable on the frame to suit the width rows.

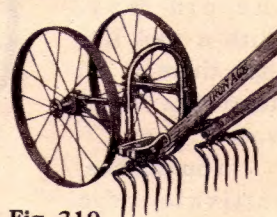


Fig. 310
With rakes to go astride the row

Landside and double mold-board plows can be used on this frame. See page 9, Figs. 82 and 170.

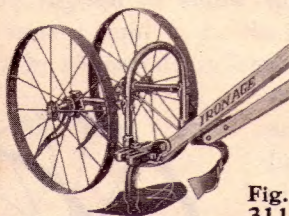


Fig. 311
With plows set for hilling

Single and Double Wheel Hoes—Continued

No. 1

In construction, we get three results—a light weight tool that anyone can push—a strong tool that will last a generation—a convenient tool that can be changed to a single wheel hoe, adjusted to any condition and takes many attachments to do special work.

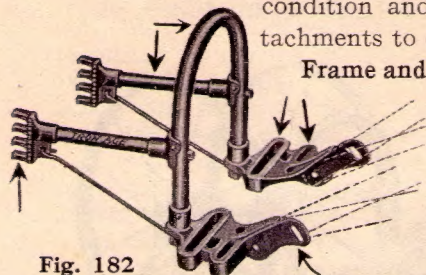


Fig. 182

Steel tube frame. Adjustments for wheels, working tools and handles

The high arch permits work astride 20-inch plants. We have used this style frame from 1895, when we began to make No. 1.

16-inch steel wheels. Built as for a bicycle, light but strong—being high wheels, they run easy, ride holes or furrows without sticking and carry the frame well above the work. The wheels can be set at three different heights in the frame or placed inside the frame for narrow rows. Use the long axle shown with No. 1 to change to single wheel hoe.



Short side hoes set for close work in spinach

work astride.

The dotted lines in **Fig. 182** show adjustment for handles to suit the small boy or tall man. The handles are made of ash.

Frame and handles. **Fig. 182** shows steel tube frame with malleable fittings and steel braces—regular bicycle construction—strong, compact, light.

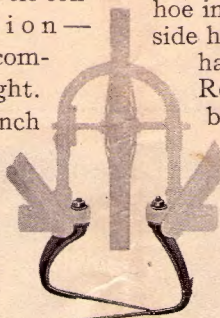
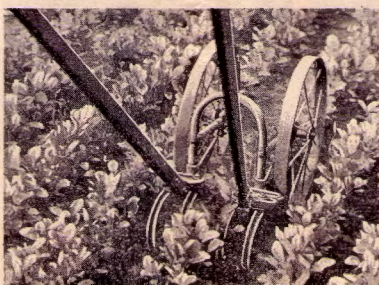


Fig. 316

Hoes set close for working between narrow rows



Perfect cultivation and no danger to the plants

Vine lifters keep the plants from being covered with soil. We furnish two.

The side hoes can be set close to the plants as the wheel runs steadily. For first hoeings of small plants, set as in No. 1 to work astride or between the rows, as in **Fig. 76**. One hoe hangs slightly ahead of the other, trash can get through and hoes can overlap when reversed—can hoe in 9-inch space. Special side hoes can be furnished to hang opposite, if wanted. Regular hoes are 7-inch, but we make them from 4 to 12 inches wide on special orders.

The cultivator teeth are steel in one piece—slender, yet strong—with points shaped for perfect cultivation. Can be used in any position on the frame. **Fig. 317** shows front and side views of special cultivator teeth which can be furnished for old or new tools. The points are one inch wide and cut the surface better. The shanks are closed in so that they will go through hard ground easily.

The plows are used astride the rows or between, for hilling or taking soil from the plants. With both plows in the center, you can open a good furrow—by reversing, can cover after manure and seed.

The rakes level and pulverize the soil for the seed bed—also break the first crust, destroying the weeds. Can be set at any angle.



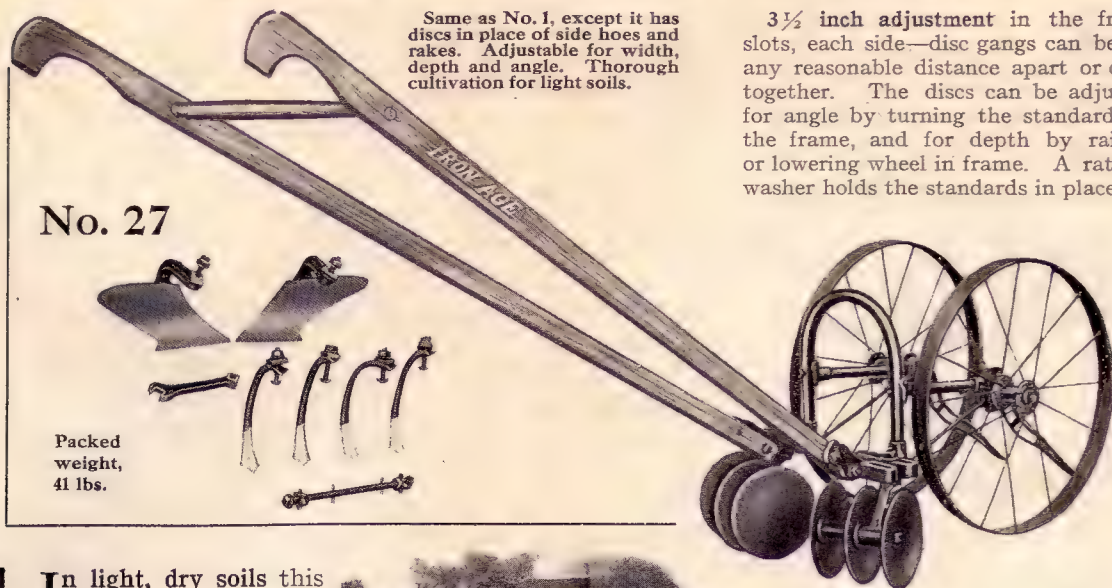
Fig. 317

Special narrow shank cultivator teeth. Per set of four, with bolts,



Ridging onions after heavy rain

Double and Single Wheel Garden Disc Cultivator



No. 27

Same as No. 1, except it has discs in place of side hoes and rakes. Adjustable for width, depth and angle. Thorough cultivation for light soils.

3½ inch adjustment in the frame slots, each side—disc gangs can be set any reasonable distance apart or close together. The discs can be adjusted for angle by turning the standards in the frame, and for depth by raising or lowering wheel in frame. A ratchet washer holds the standards in place.

Packed weight, 41 lbs.

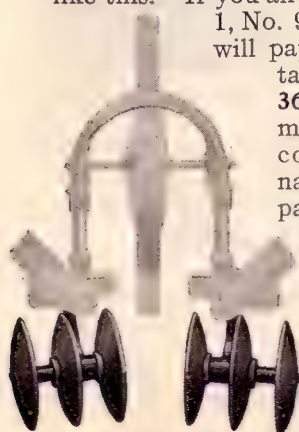
No. 27

In light, dry soils this combination makes the soil fine and loose, and market gardeners will find it to their advantage to have at least one outfit like this. If you already have No.

1, No. 9 or No. 20, it will pay to have attachment (Fig. 369, page 9) to make one of the combinations named on this page. The discs are not suited to wet or trashy soil.

Throws soil to or from the row. The discs can be set either way and used astride or between rows.

Can be used three, two, or one on a side, to suit width of rows.



Showing discs arranged for inthrow

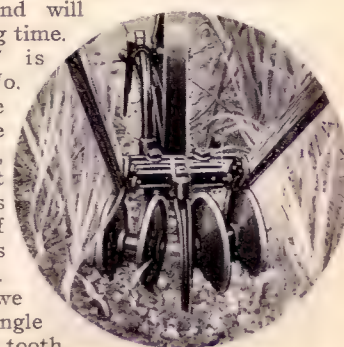


Two discs on each side in narrow rows of seed onions

When set to throw in and meant to work close, the standards and thimbles are changed—easily and quickly done. The discs are heavy steel, properly ground, and will wear a long time.

No. 27 is same as No. 1 Double and Single Wheel Hoe, except it has discs in place of side hoes and rakes.

Above we show a single cultivator tooth, used between the disc gangs to get more thorough cultivation from row to row.



No. 28. Single Wheel Garden Disc Cultivator (same as No. 20, except discs in place of hoes and rakes),

No. 29. Single Wheel Garden Disc Cultivator (same as No. 9, except discs in place of side hoes and rakes),

Attachments for Wheel Hoes

These attachments increase the variety of work that can be done and save much time. They also save buying complete tools for special work.

Combined Disc and Fender Attachment, Fig. 169

You cannot safely hoe close to small plants on account of the crust that forms around them—the small discs on this attachment are set to cut the surface ahead of the hoes. Discs may be used as fenders (usually with cultivator teeth) to keep soil from being thrown on the plants. Arrows in the cut indicate three different adjustments—depth of cutting, distance from the plants and position forward or back.

Fig. 369
Garden disc
cultivating
attachment

Garden Disc Cultivating Attachment, Fig. 369

See page 8 for description. Furnished as attachment for wheel hoes, Nos. 1, 9 and 20.

Landside Plow, Fig. 82

Makes the tool a perfect wheel plow, with plow following line of the wheel. Plows good, deep furrow and runs steadily.

Double Moldboard Plow, Fig. 170

Has adjustable wings to open furrows of various widths. For narrow work the wings can be removed. Can be applied to any Iron Age Wheel Hoe.

Special Fender Side Hoes, Fig. 216

Made with high sides for early working, especially in onions.

Used in place of the regular hoes on any Iron Age Wheel Hoe—will be furnished that way when ordered—add letter "C" to the number of the tool, as No. 1C, and 65 cents to the price. Cut shows them for working astride—can be reversed for work between rows.

Hilling Attachment, Fig. 236

For Double Wheel Hoes. These hillers draw a small amount of soil to the plants, working astride the row. Are used principally in early cultivation of onions.

Double Weeders Attachment, Fig. 81

For destroying the weeds in hard crust which the side hoes might not get alone. Cut shows position in which weeder is attached. It throws back to the plants the little soil taken away by the hoes and leaves the ground with a level mulch of fine soil that protects in dry time. One or more teeth can be taken off. Attachment can be used on single wheel hoe by changing to opposite sides.

Single Tooth Attachment, Fig. 112

To be used with single wheel form of No. 1 Hoe, to cultivate the ground between the two inside teeth when working between rows.

Onion Set Gatherer, Fig. 33

Saves hours of hard work. Gathers onions, radishes and other root crops in a thorough manner. Can be used on any of our double and single wheel hoes.



Fig. 216
Special fender side hoes

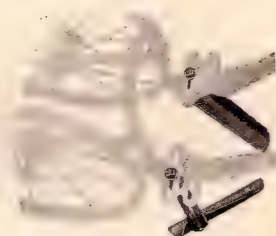


Fig. 236.



Fig. 81
Attachment only,

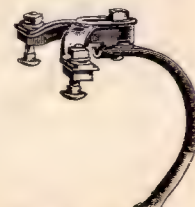


Fig. 112.



Fig. 33.



Fig. 169

Solid part shows disc and fender attachment. Arrows indicate adjustments. Attachment only.



Fig. 82



Landside plow,



Fig. 170.

Single Wheel Hoe

No. 20

A lower-priced, lighter weight tool than No. 1, but strong and durable, and is able to do all of the necessary between-the-row hoeing, cultivating, furrowing, ridging, weeding, leveling, etc., in any home or market garden.

Market Gardeners prefer separate tools for each job

and not have to change. There is more between-row work in the season and so No. 20 is a very popular tool with the market gardener.

The wheel is steel, 16 inch, 1 3/4 inch rim, supported by steel tube frame extensions, and is adjustable for height.

The working tools, with every No. 20, include

Pair Side Hoes
Pair Rakes, 6 tooth
One Landside Plow
Three All-Steel Cultivator Teeth

and are adjustable for position on a one-piece malleable frame, for close or wide cultivation.

The handles, also, are adjustable for height.

Drill Attachments. Either Fig. 134 (page 2) or Fig. 133 can be used on this tool, making complete drills Nos. 15 or 17.

Single Weeders Attachment. Fig. 84. It pulverizes the soil and destroys the weeds just coming through. One or more teeth can be removed if necessary to work in narrow spaces.

Other attachments. Figs. 33, 112, 170, 216, 236 and 369, on page 9, and Figs. 184 and 235, on page 19, can be used on No. 20. No. 28; listed on page 8, is the disc garden cultivator form of No. 20.

No. 21 (No. 20 with side hoes only)



Fig. 84

Single weeder attachment

No. 20

Complete
Packed weight,
30 lbs.



Combined Hill and Drill Seeder and Single Wheel Hoe

No. 15

No. 20 plus Fig. 134, on page 2 makes this combination and gives the man who prefers or needs single wheel hoe only, the

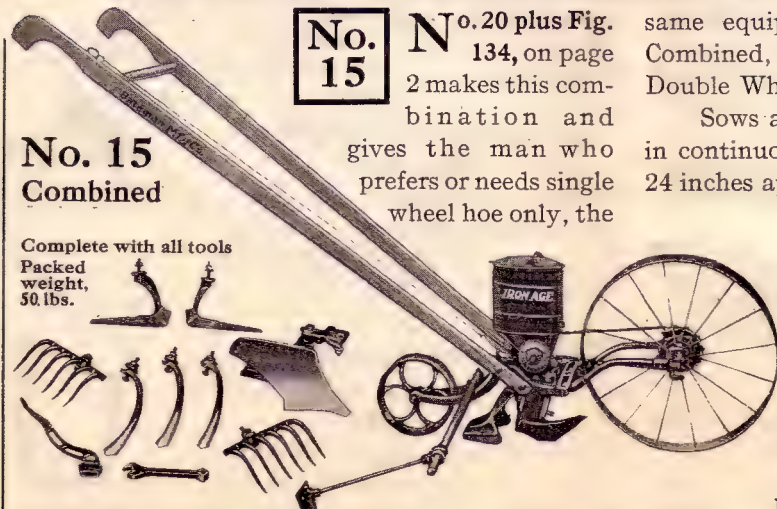
same equipment and service as with our No. 6 Combined, except that he does not have the Double Wheel Hoe or the higher frame.

Sows all of the seeds named on page 2, either in continuous rows or drops in hills 4, 6, 8, 12, or 24 inches apart, the change from hill seeder to drill and back being made instantly.

Figs. 145 and 215, on page 4, will fit this tool as attachments, but Fig. 215 should not be ordered new with No. 15 as a new tool because it will not work when dropping in hills. Order Nos. 17B or 18B, if you prefer Fig. 215 on your new machine.

**No. 15
Combined**

Complete with all tools
Packed weight,
50 lbs.



No. 16 Hill and Drill Seeder only,

Combined Drill Seeder and Single Wheel Hoe

No. 17

No. 20 plus Fig. 133 makes this combination. It is the same as No. 15 Combined, except that it will not drop seed in hills, and the opening plow is different.



Fig. 133

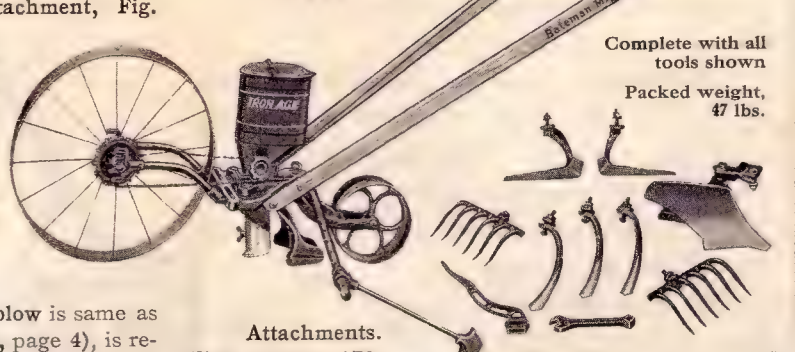
The drill attachment, Fig. 133, is exactly the same as on No. 4 Combined and the complete No. 17 gives same service as No. 4, except that the latter has double wheels and a higher frame.

The opening plow is same as on No. 4 (Fig. 320, page 4), is reversible for narrow furrows when planting market onions other than sets, and is adjustable for depth.

Figs. 215 and 234, page 4, can be furnished for No. 17, as attachments. If complete machine is wanted with

Fig. 215, order by adding letter "B" to the number, as No. 17-B. If wanted with Fig. 234, add letter "D," as No. 17-D.

No. 17



Complete with all tools shown
Packed weight, 47 lbs.

Attachments.

Figs. 33, 112, 170, 216 and 369, on page 9, and Fig. 84, page 10 can be applied to No. 15. Also, Figs. 184 and 235, fertilizer attachments, page 19.

No. 18—Drill Seeder only,

Special Seed Drill (for Onions, etc.)

No. 18B

For market onions, other than sets. This drill is fitted with a special spout and opening plow, Fig. 215, shown by the arrow and separate cuts on page 4. Seed is drilled in very narrow rows, which makes thorough cultivation easy for

the Wheel Hoe. Cuts out hand weeding almost entirely, if not quite so.

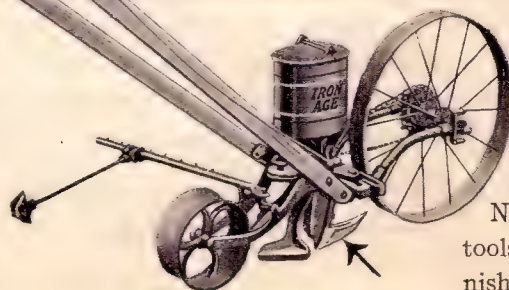
For onion seed, for sets you should have opening plow Fig. 145, on page 4.

This tool is like No. 18 in other points of construction. Number 18-B is not supplied with working tools, as shown in No. 17, but the tools can be furnished if wanted.

No. 18B

Drill only
Packed weight, 38 lbs.

How many men are just getting along without a special tool for particular seeding? Won't it be worth your while to find out from your dealer all about it?



Market gardeners find Iron Age drills just suited to their work. These men are seeding behind a fertilizer drill.

Rear Wheel Seed Drill (for Onions, etc.)

THIS tool is a modification of our No. 18 fitted with a special high and wide rear wheel for packing the seed and also with a rigid marker.

The rear wheel packs the seed thoroughly—rides easily over rough ground.

The steel marker, with cast-iron shoes, is absolutely rigid, so that your rows will be perfectly straight and uniform. This helps cultivation. The markers are connected by wire to the handles and lever stops are attached to hold against the handle round so the marker won't slip down when not in use.

The opening plow is our Fig. 215 (page 4) designed for narrow rows and has been used successfully on

our regular drills,
m a n y

years. We can furnish with our regular opening plow Fig. 234, (page 4) for average sowing or a wide opening plow for seed for onion sets.

In other respects this machine is built same as No. 18. It takes complete set of cultivating tools as on our No. 20 Wheel Hoe (page 10).

The seed attachment, complete, can be furnished to go on any No. 1 or No. 20. Wheel Hoes. If for old tools your handles will have to be bored to take braces, etc. New machines are furnished in the following combinations:

- Nos. 04 or 04B Combined Drill Seeder, Double and Single Wheel Hoe, complete
- Nos. 05 or 05B Drill Seeder, only
- Nos. 017 or 017B Combined Drill Seeder, and Single Wheel Hoe
- Nos. 018 or 018B Drill Seeder, only
- Nos. 040 or 040B Combined Drill Seeder, Double and Single Wheel Hoe (Side Hoes and Teeth only)
- Figure 533—Drill Seeder Attachment, only

The "B" indicates Fig. 215 Plow.

No. 018B



Fitted with narrow opening plow.

If wanted with medium-wide opening plow, order as No. 018.

We also have a wide plow for seed for sets.



Sowing in straight, close rows; seed packed thoroughly.

Single Wheel Hoe Cultivator, Plow and Rake

No. 9 For kitchen garden and poultry yard. The single wheel hoe is best where rows are narrow, as the work is done principally between them. Plants of small growth can be hoed both sides at once by placing the wheel on the left side. With the No. 9 the narrowest spaces can be worked, using but one cultivator tooth if necessary. Side hoes can be furnished as narrow as 4 inches for working between rows. Regular hoes are 7 inch, but does not take drill attachment. It is a light, well built tool and having but one wheel, runs steady. In poultry yards, big and little, the soil can be stirred thoroughly, work that is usually done with a special plow.

Construction. The wheel is steel, 16 inches high—the frame is one piece of steel tubing, bent to the proper shape for strength, and securely

attached to the malleable casting that carries the working tools and handles. The latter are adjustable for height.

The working tools include a pair each, side hoes and rakes, four cultivator teeth and landside plow. With the latter, deep furrows can be opened and covered. You can



No. 9

Complete with
all tools
Packed weight,
28 lbs.



No. 9

Cultivating
onions
in light
Jersey
soil



No. 10

Packed weight, 22 lbs.

In many states there are large sections that are especially adapted to growing onions.

Growers in such sections have learned that it is impossible to raise onions with profit without the best tools for the purpose.

Nos. 10 and 18B (page 11) are as good as you can get.

hill such crops as potatoes, celery, etc.

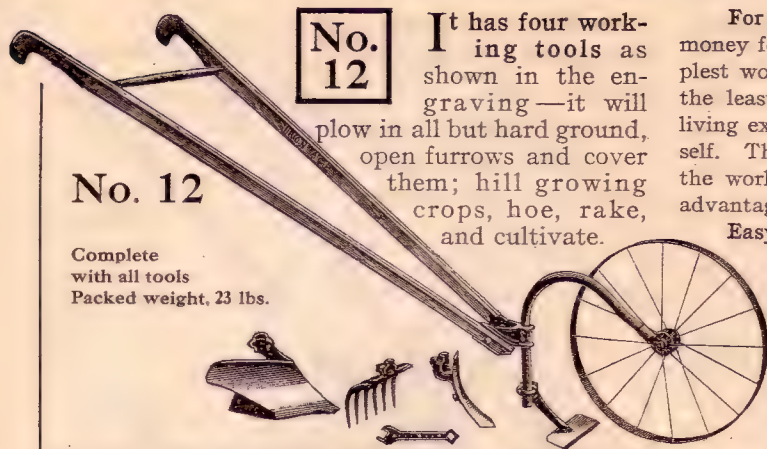
Attachments. Fig. 84, page 10, and Figs. 170-369, page 9, fit this tool. No. 29, price of which is given on page 8, is the disc form of No. 9.

Single Wheel Hoe

No. 10 This is No. 9 with side hoes only, and set with the hoes pointed in. They can be set as close as necessary and short side hoes used. (See description No. 9.)

Onion Growers prefer the tool in this form—the side hoes are always set, ready for business—they work close to the young plants, without injuring them—they make hand weeding practically unnecessary.

Wheel Plow and Cultivator



No. 12

It has four working tools as shown in the engraving—it will plow in all but hard ground, open furrows and cover them; hill growing crops, hoe, rake, and cultivate.

No. 12

Complete with all tools
Packed weight, 23 lbs.

For the laborer and mechanic who cannot afford much money for a garden tool, who has time only for the simplest work, but who, nevertheless, wants a garden with the least work possible. It means a big reduction in living expense and better health for his family and himself. The No. 12 is low-priced, but complete in itself for the work to be done. This tool, also, can be used to advantage in stirring the soil in poultry yards.

Easy to manage. The average net weight with one working tool is about eight pounds, and it is easily carried wherever you want to work. It is used as readily as a common hoe, but is quicker and does more good.

Scuffle hoes, like the one shown in the cut, can be furnished in any width up to 12 inches. Has the 16-inch steel wheel and a steel tube arch attached to a malleable frame.

You cannot always get a horse, or your garden may be too small



If your soil is light, try No. 11 in this way



The chicks like this and they are healthier when induced to work

Wheel Plow

No. 11

A light, graceful, low-priced tool, that can be used as a wheel plow anywhere, but is especially recommended for turning under accumulations in the poultry yard.

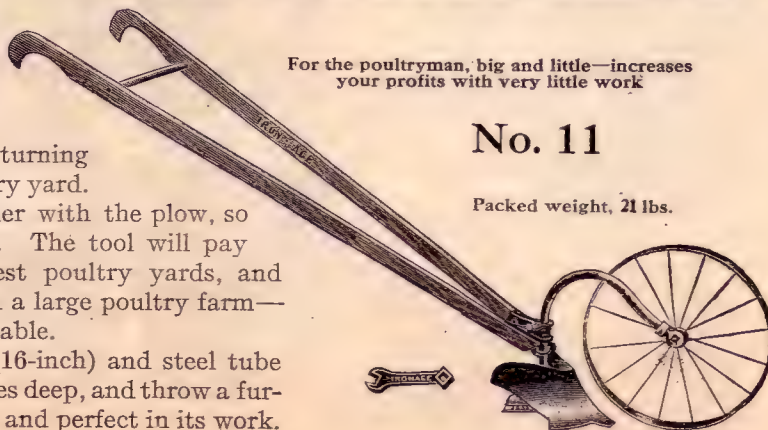
Scatter some oats and turn them under with the plow, so the chicks will have to scratch for the feed. The tool will pay for itself in this way alone, in the smallest poultry yards, and several tools can be used to advantage on a large poultry farm—the chicks will be healthier and more profitable.

Has bicycle construction, steel wheel (16-inch) and steel tube frame. It will plow from three to four inches deep, and throw a furrow four to six inches wide. Easy to push and perfect in its work.

For the poultryman, big and little—increases your profits with very little work

No. 11

Packed weight, 21 lbs.



Wheel Cultivator and Plow

**No.
19-C**

If you have never tried a wheel hoe for your garden, get one of these and see how easy it is to keep your ground under perfect cultivation. It is a low-priced tool and will always be a convenient tool to have for many kinds of work, even if you do buy some of the other combinations later.

Many market gardeners use several of these tools and find their use very profitable—a simple solution of the cultivation problem.

It does the necessary plowing in many soils, opens furrows for seed or fertilizer and covers on the return trip. Has two sizes of single teeth that work between narrow rows, landside plow, a scuffle hoe and set of three teeth on one bracket for hoeing and cultivating between the wider rows. The old way of hoeing is entirely out of date and unnecessary.

With a tool of this kind, the work is done in a tenth of the time and you go through ten times where you did once before—result, a better garden in every way, with less work—keeps the weeds down, the thorough cultivation is good for the soil and helps to hold moisture in the ground.

A garden such as shown in the cut would be impossible to a busy man with an old-fashioned hoe.



A fine home garden, on a large scale, taken care of by one man

The cultivating tools include
Landside Plow
Scuffle Hoe
Two Separate Cultiva-
tor Teeth
Set of Cultivator Teeth
on Bracket

No. 19-C

Complete with all
tools
Packed weight,
22 lbs.



24 inch wheel. The distinctive feature of this tool is its high steel wheel—24 inches—which some sections seem to prefer. The frame is an all steel arch in three parts—compact, light, durable. The working tools are attached in position easily and are adjustable. The plow turns a good furrow and is used for ridging or hilling the plants.

No. 19

Complete.
Packed
weight,
22 lbs.



Wheel Plow and Cultivator

**No.
19**

This is the old form of this tool and is furnished when ordered. No. 19 has a malleable rake in place of the set of three cultivator teeth on one bracket. The Bracket with teeth and set screw is sold as an attachment to fit old No. 19 (see Fig. 408).



Fig. 408

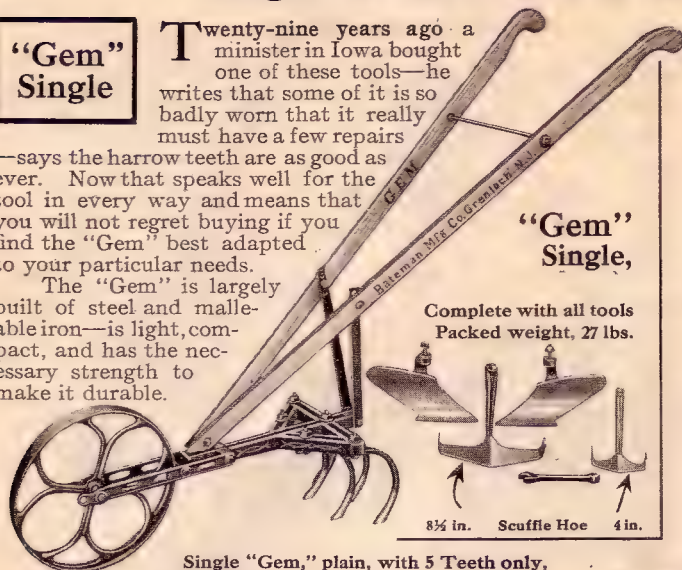
Single Wheel Garden Hoe and Cultivator

"Gem" Single

Twenty-nine years ago a minister in Iowa bought one of these tools—he writes that some of it is so badly worn that it really must have a few repairs

—says the harrow teeth are as good as ever. Now that speaks well for the tool in every way and means that you will not regret buying if you find the "Gem" best adapted to your particular needs.

The "Gem" is largely built of steel and malleable iron—is light, compact, and has the necessary strength to make it durable.



"Gem" Single,

Complete with all tools
Packed weight, 27 lbs.

Single "Gem," plain, with 5 Teeth only,

All tools are fastened in notches on under side of the frame—they will not get loose and slip when working, and are adjusted on the frame as needed.

Double Wheel Hoe

"Gem" Double

Having two wheels instead of one, this tool can be used astride the rows in first and second workings of the crop.

Side hoes are furnished instead of scuffle hoes, for close work. Other working tools include 5 cultivator teeth and pair of plows.

The axles are made to slide together like the parts of a telescope and bring the wheels close up, so that the tool can be used as a single wheel hoe between the rows.

The frame is exactly the same as used on the Single Wheel "Gem" and has same adjustments for tools and height of wheels.

Takes Fig. 33, Onion Set Gatherer, shown on page 9, as an attachment.

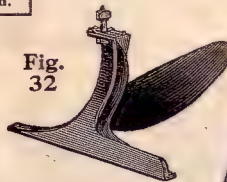
Fig. 32, Landside Plow, can be applied only to "Gem" Wheel Hoes, Single or Double, and is furnished as an attachment. It opens a straight, deep furrow.

The working tools include set of five slender cultivator teeth, each stamped from one piece of steel and guaranteed for thorough work, especially in hard soil—two sizes of scuffle hoes for working between the rows and a pair of plows which can be used together as one plow or separate for hilling. The scuffle hoes are four, and eight and one-half inches wide. A special size, six inches wide, will be furnished when ordered.

The wheels are adjusted in height by moving frame braces up or down on ratchet just in front of handles.

The handles, also, can be adjusted to suit short or tall people.

Fig.
32



Double "Gem,"

Complete with all tools. Packed weight, 30 lbs.

Garden Seed Drill

New Model

For 32 years we have made this drill, to the entire satisfaction of many thousands. Seedsmen, market gardeners and home gardeners all join in telling us how it saves seed, saves time, and makes better, easier cultivation possible. Many of the first "New Model" drills are still in use.

We have exact regulation of seed discharge by using an eccentric index or indicator which adjusts the slide for the seed opening exactly where you want it.

The index is in plain sight when the tool is in operation—the names of the principal seeds are shown on it—no reference table is necessary. Although we provide this index,

We suggest that each man adjust at the mark,

a trifle ahead or to the rear of the mark, according to his preference for sowing—every man can suit himself, but he gets an exact adjustment which he cannot get elsewhere.

The flow of seed can be instantly stopped by a swinging

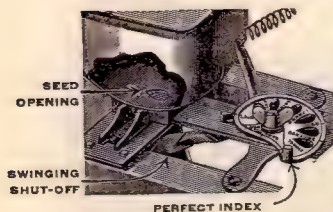
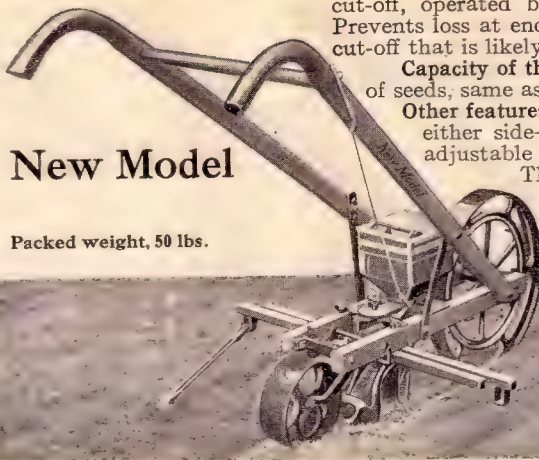


Fig. 29



Packed weight, 50 lbs.

New Model

cut-off, operated by a cord and ring on the handles. Prevents loss at ends of rows and is preferable to a slide cut-off that is likely to be jammed by falling seed.

Capacity of the hopper is two quarts. Sows all kinds of seeds, same as No. 6.

Other features. The marker can be worked from either side—is held firmly in place and is easily adjustable for rows 20 inches wide.

The covering wheel is attached to a swinging frame and by varying pressure on the handles the operator can roll lightly or otherwise.

The main wheel is 14½ inches high with wide rim that keeps it from sinking into soft earth.

Unless otherwise ordered, we furnish all these drills with regular

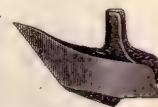


Fig. 234

steel opening plow. It is reversible from top to bottom and adjustable for depth. (See Fig. 320.)

No. 2. When wanted with opening plow, shown in Fig. 234, the complete tool should be ordered as No. 2 New Model. This plow is practically clog-proof. It is sold also as an attachment for any New Model Drill.



Fig. 320
Reversed



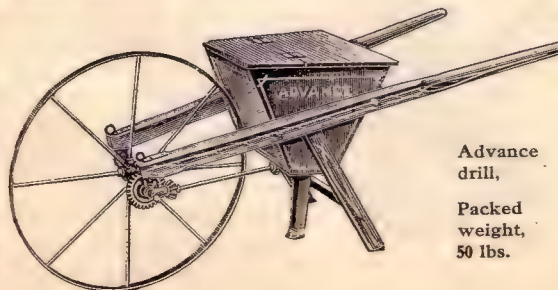
Fig. 304

No. 2304

We also have another opening plow, No. A-22, used largely for sowing onion seed for sets—it scatters seed in the row over three inches wide. If new drill is wanted with this plow, please order as No. 2304, at same price as regular drill.

"Advance" Fertilizer and Seed Drill

The best low-priced distributor on the market. Also, a first class tool for drilling peas, beans and corn. The distributing disc is galvanized iron and will not break or rust. Hopper holds 18 quarts and is lined at the bottom with galvanized iron. A steel agitator keeps the seed moving, and a lever with thumb nut controls the seed opening. A loop is fastened at each side of the wheel so that a horse can be used—a small boy can operate it easily. The feed is operated by gearing and is positive. A lever throws in and out of gear. The wheel is steel—light, yet strong. We use a high wheel because it runs easier.



Advance drill,

Packed weight, 50 lbs.

Combined Fertilizer Distributor, Hill and Drill Seeder

No. 22

Although commercial fertilizers are more convenient and more pleasant to handle than manure and are practically necessary in order that you may compete with your neighbor, they are not profitable unless applied in an economical way.

The gardener must know not only what kinds of



No. 22

Complete

Packed weight, 68 lbs.
Cultivating tools cannot be applied on the frame of this machine

—the fertilizer can be placed as near the seed as you wish or in the same line as the drill. Flexible coverers follow the plows.

The Hill and Drill Seeder attachment (Fig. 398) used on this tool is about the same as used on Nos. 6 and 15 Combined—the only difference being construction changes necessary to attach and operate it on No. 22. It is complete with its own opening plow and flexible coverer—opens its own trench through the mixed fertilizer and soil, and deposits the seed, without injury, in hills at 4, 6, 8, 12, or 24 inches apart, or in continuous rows as wanted.

The wheels are steel, 16 inches high, light and strong.

Below we explain another use for this tool when set up, as a

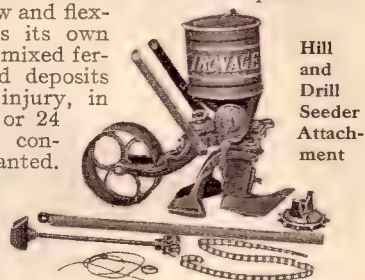


Fig. 398.

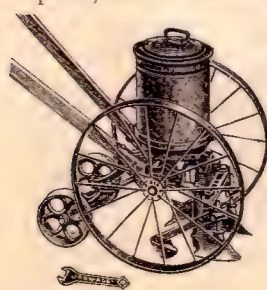
Fertilizer Distributor

No. 23

To be used as a Side Dresser. It is simply a part of No. 22—without the Hill and Drill Seeder attachment, Fig. 398, and with small two-

fertilizer to put on, but how. There is where No. 22 Iron Age comes in—it applies the fertilizer in connection with the seed just where it will do the most good, and without injury to the seed. Although on a smaller scale,

The distributor is built on practically the same lines as the one used so successfully on our Potato Planter. The flow of fertilizer is regulated by a gate, adjusted by thumb screw, and is divided in the spout, at the discharge opening, into two streams.



No. 23.

Packed weight, 40 lbs.

The brass wire distributing tubes are flexible to meet necessary adjustment of the plows. The tubes will not rust and other parts likely to rust are galvanized. Fertilizer hopper holds four quarts.

The fertilizer distributor has

Two opening plows—one or both may be used, and they are adjustable for depth and width also

wheel truck at the rear. The tool can be purchased complete in this form and the Hill and Drill Seeder attachment added if needed later.

Broadcasting fertilizer before seeding is wasteful. Try applying part of the fertilizer in the row at seeding time and then use this tool (No. 23) to side dress with quick acting fertilizers, such as nitrate of soda. This will force the growth, make crop more tender, will sell quicker and at higher prices.



No. 23 side dressing onions

Single Wheel Hand Fertilizer Distributor

No. 25

A combination of our No. 20 Single Wheel Hoe Frame and a practical Fertilizer Distributor attachment (Fig. 184) for the proper handling of commercial fertilizers.

With it

Fertilizer may be sown across the bottom of the furrow or on either side, so it will not come in contact with the seed, possibly injuring it. Or, you can use the tool

For side dressing of crops, forcing earlier maturity and making a more tender and salable crop. See V-shaped piece shown in spout in Fig. 184. When wanted on one side only, use small piece under sprocket to clog one side. If broad stream is wanted, take out V-shaped piece. The tool is light and convenient to get around with.

The capacity of the hopper is a trifle over four quarts. All castings inside the hopper that

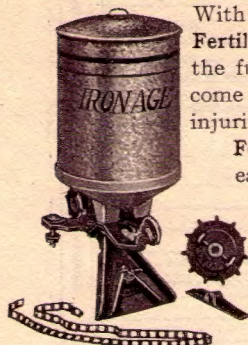
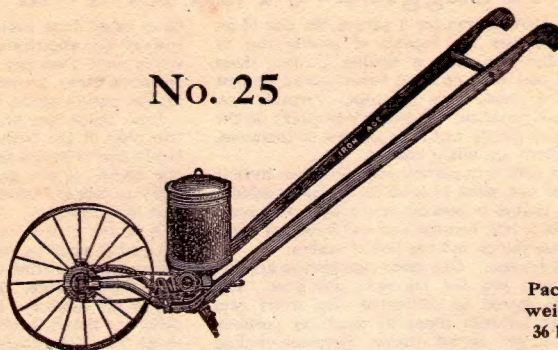


Fig. 184
Fertilizer distributor
attachment.

No. 25



Packed
weight,
36 lbs.

come in contact with the fertilizer are galvanized to prevent rusting. A revolving wheel feeds the fertilizer.

The necessary working tools and all attachments, including the drill, can be purchased at any time and the machine used as a Single Wheel Hoe, or as a Drill Seeder.

Or, if you have No. 20, buy Fig. 184 or Fig. 235 and attach to your frame.

Single Wheel Fertilizer Drill

No. 26

This combination is made by attaching Fig. 235 to No. 20 frame and is sold without cultivating tools, although these will be sent complete if you order No. 20 and Fig. 235.

No. 26 drills the fertilizer and makes its own furrow, covers and packs it, and marks the next row, all in one operation. Sows fertilizer from

$\frac{3}{4}$ to 3 inches in depth. Is light draft and convenient to handle.

In advance of small seed. It is used mostly for drilling about eight days in advance of small seed, such as onions, etc. It has our anti-clog plow, which cuts through and rides down trash and lumps and helps to put the fertilizer just where it is needed.

Attachments (Figs. 184-235) can be applied to our No. 1 Double and Single Wheel Hoe, as well as to the No. 20.

As No. 26 is often used in advance of seed drill, it is desirable that a marked furrow be left as a guide—so we furnish a marker wheel, as shown in Fig. 303. Order Nos. C154 and C155 (Frame and Wheel). If complete machine is wanted this way, order as No. 26 with Fig. 303 at same price.



Fig. 235
Fertilizer drill attach-
ment.

No. 26

Packed
weight,
47 lbs.

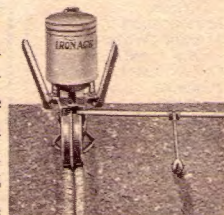
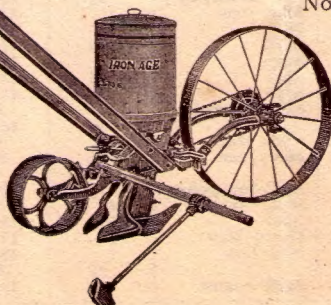


Fig. 303
Special marker wheel
and frame.

A Suggestive Plan for Your Garden

We show a plan for a garden the size of an ordinary city lot, capable of modification in any direction. For a smaller garden, those crops that take up most room should be first omitted—peas, corn, potatoes, vegetable oysters and parsnips. Fewer onions might do the ordinary family and a single row of tomatoes, well cared for, might answer.

The plan is important and when you have it figured out, stick to it as closely as possible—don't change it because you happen to have a few seeds left, because you will have too much of some things and too few of others.

Cultivation. One great rule always applies: *The more you hoe, the more you grow.* The garden should be cultivated after every rain and in between times as much as possible. Cultivation serves three purposes—killing weeds, keeping in the moisture by creating a top "mulch" of dry dirt and letting air into the soil. When the plants are small, cultivate with the Wheel Hoe astride the rows. When they are large, use the Wheel Hoe between the rows. Use the rakes for fine or shallow cultivation, the side hoes and cultivator teeth for general cultivation and the plows for opening furrows and covering in seeding time and for hilling up the plants when desired.

Substitutions may be made in a number of instances. For instance, one row of cantaloupe may be put in at the end of the garden. Keep

them away from cucumbers or squash. Two rows of strawberries at one end of the garden would more than pay for the space taken from the other crops, provided the soil is well suited for the growth of the berries.

Lima beans may be sowed in place of one or two rows of the bush beans and some people would like to have a few roots of horseradish in one corner of the garden. Once planted, it will take care of itself with little attention on the part of the grower.

A garden such as outlined, if planted according to the planting table, should yield during the season approximately as follows:

In June, lettuce, onions, bush beans, peas, radish and spinach. In July and August, pole beans (or limas), beets, early cabbage, carrots, sweet corn, swiss chard, cucumbers, early potatoes, spinach and tomatoes. Fall, late cabbage, celery, if any, swiss chard, lettuce, spinach, squash and turnips. Several of these will yield until frost.

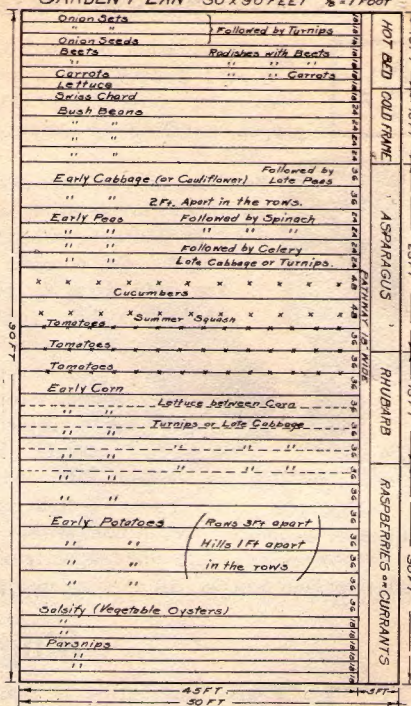
You can store for Winter use, beets, cabbage, carrots, celery and turnips. Parsley may be put in a cold frame and used all winter. Parsnips and salsify may be dug any time in the winter that you can get them out of the ground.

If any reader is interested, we will be glad to furnish practical cultural information on any crop mentioned here, or to point out where you can get the information, if we don't have it.

PLANTING TABLE—Compiled from the Best Authorities

Estimates of amount of seed required are based upon the requirements of a garden such as outlined in this article. Calculations are based upon the climatic conditions prevailing in the Northern States. Time for planting, is, of course, earlier in the warmer sections.

GARDEN PLAN FOR CITY LOT 30 X 90 FEET SCALE 1/4" = 1 FOOT



VARIETY	SEED REQUIRED	WHEN TO SOW		HOW TO PLANT			HOW SOON READY TO USE
		INDOORS	OUTDOORS	DEPTH (inches)	ROWS APART (inches)	PLANTS APART IN ROWS (inches)	
ASPARAGUS	1 ounce		April	1 to 2	24	3-5	3 to 4 years
ASPARAGUS (roots)			April	6	24	15 to 20	1 to 3 "
BEANS, bush	3 pints		March to April	2	24	1 to 2	40 to 65 days
BEANS, lima	1 quart		May	2	24	6	90 days
BEETS	1 ounce		April to August	1 1/2	12-18	2 to 3	60 to 80 days
CABBAGE	1 "	February to March	May to June	1 1/2	24	24	90 to 130 "
CARROT	1 "		April to July	1 1/2	12-18	2	75 to 110 "
CAULIFLOWER	1 "	February to March	April to June	1 1/2	24	24	100 to 130 "
CELERY	1 "	February	April and May	1 1/2	36-48	6	100 to 150 "
CHARD	1 "		April	1 1/2	12-18	2 to 3	90 to 120 "
CORN	1 quart		May and June	1 1/2	36	36	60 to 100 "
CUCUMBER	1 ounce	March	May, July	1 1/2	36-48	36-48	60 to 80 "
EGGPLANT	1 "	February, March		1 1/2	24-36	18-24	100 to 140 "
LETTUCE	1/2 "	February, March	April to August	1 1/2	12-18	3-6	60 to 90 "
MUSKMELON	1 "	April	May, June	1	48-60	48-60	120 to 150 "
MELON (Water)	1 "		May	1	48-60	48-60	100 to 120 "
ONION (seed)	1 "	February	April	1 1/2	12-18	2-3	130 to 150 "
ONION (sets)	1 quart		April	2	12-18	2-3	90 to 120 "
PARSLEY	1 ounce		April	1 1/2	12-18	3-6	90 to 120 "
PARSNIP	1 "		April	1 1/2	18-24	2-3	125 to 160 "
PEAS	2 quarts		March to June	3	24	15 to foot	40 to 80 "
PEPPER	1 ounce	March	April, May	1 1/2	18-24	15-18	100 to 140 "
POTATO	1 peck		May, June	4	36	14-18	80 to 140 "
PUMPKIN	1 ounce		May, June	1 1/2	108	108	100 to 140 "
RADISH	Plant a few hills in 1-2 ounces	with the corn	April-September	1 1/2	12-18	1/2-1	20 to 40 "
RHUBARB	1 root for each plant		Sept.-October	4	48	48	1 to 3 years
SALSIFY	1 ounce		April	1 1/2	18-24	2-3	120 to 180 days
SPINACH	1 "	March	March-May	1	12-18	1-2	30 to 60 "
SQUASH	1 "		May-June	1	48-96	36-72	60 to 160 "
TOMATO	1 "	February-April		1 1/2	36	36	100 to 140 "
TURNIP	1 "		April-August	1 1/2	18-24	2	110 to 140 "

IRON AGE *Garden Tools*

On Miller Bros. Ranch No. 101, in Oklahoma
Economical tools to use, even
in this large garden



First ridging of potatoes

Not to exceed 15 minutes for
half a dozen 60 foot rows. How long
would an old-fashioned hoe take?



The thorough
cultivation that
keeps the weeds
down at all times, holds
the moisture and helps the
ground to grow better
crops, is possible only
with Modern
Garden Tools

Fertilizer
Distributing
spreading
wheel across
each side
of the
row

IRON AGE

Assuring
seeding in
long straight
rows beats
the old
way



Any woman can make garden
easy with a tool like this



It doesn't take long to cultivate the whole field this way and these wheel cultivators do thoroughly
would be impossible to get done any other way